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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,890	12/02/2003	Chi-Chung Hsu	3313-1078P 2436	
2292 7	590 12/27/2004	EXAMINER		
	WART KOLASCH &	BROOKE, MICHAEL S		
PO BOX 747 FALLS CHUR	.CH, VA 22040-0747	ART UNIT	PAPER NUMBER	
	•		2853	

DATE MAILED: 12/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				v.	Ma				
		Application No.	1	Applicant(s)					
Office Action Summary		10/724,890		HSU ET AL.					
		Examiner		Art Unit	<u>·</u>				
	•	Michael S. Brooke	2	2853					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHC THE M - Extens after S - If the p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Sicions of time may be available under the provisions of 37 CFR 1.13 IX (6) MONTHS from the mailing date of this communication. Seriod for reply specified above is less than thirty (30) days, a reply beniod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, of within the statutory minimum ill apply and will expire SIX (6 cause the application to become to be considered.	may a reply be timely n of thirty (30) days v 6) MONTHS from the ome ABANDONED	y filed will be considered timel a mailing date of this c (35 U.S.C. § 133).	y. ommunication.				
Status									
1)□ [Responsive to communication(s) filed on								
′=	/—	action is non-final.							
	Since this application is in condition for allowan	· ·	•		e merits is				
(closed in accordance with the practice under E.	x parte Quayle, 193	5 C.D. 11, 453	O.G. 213.					
Disposition	n of Claims								
5)⊠ (6)⊠ (7)□ (Claim(s) <u>1,3-5 and 7-10</u> is/are pending in the apara) Of the above claim(s) is/are withdraw Claim(s) <u>7,9 and 10</u> is/are allowed. Claim(s) <u>1 and 3-5</u> is/are rejected. Claim(s) <u>8</u> is/are objected to. Claim(s) are subject to restriction and/or	n from consideration	,		·				
Application	on Papers								
10)⊠ T , ,	The specification is objected to by the Examiner The drawing(s) filed on 12/02/03 is/are: a) and acceptant may not request that any objection to the objected to by the Examiner The oath or declaration is objected to by the Examiner The oath of the oath oath of the oath oath oath oath oath oath oath oath	ccepted or b) objed or a or occuping on a community or occuping o	beyance. See 3	37 CFR 1.85(a). cted to. See 37 C					
Priority u	nder 35 U.S.C. § 119								
12)⊠ <i>A</i> a)⊠ 2	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau ee the attached detailed Office action for a list of	have been received have been received ity documents have (PCT Rule 17.2(a))	d. d in Application been received	n No. <u>10/213,07</u> in this National					
2) Notice 3) Inform	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Pap			O-152)				

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "second barrier layer provided on the upper and lower sides of the first barrier layer," as recite in claim 7, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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in independent claim 1.

Claim Objections

Claims 3 and 5 objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The limitations "wherein the first barrier layer is between the nozzle plate and the second barrier layer" and "wherein the second barrier layer is under the first barrier layer" are already taught

Claims 4 and 8 objected to because of the following informalities:

- In claim 4, with word "nozzeles" is misspelled.
- In claim 4, "a plurality of holes" is recited. It is unclear as to what element
 these holes correspond. Neither the Detailed Description nor the
 drawings provide any teaching of holes, save for the slots, recited in claim
 - 1. For the purpose of examination, the Examiner will interpret the term "holes" to be the same element, as the "slots."
- In claim 8, the word "otuer" is misspelled.
- In claim 8, "the otuer side of the inlet" lacks antecedent basis.

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

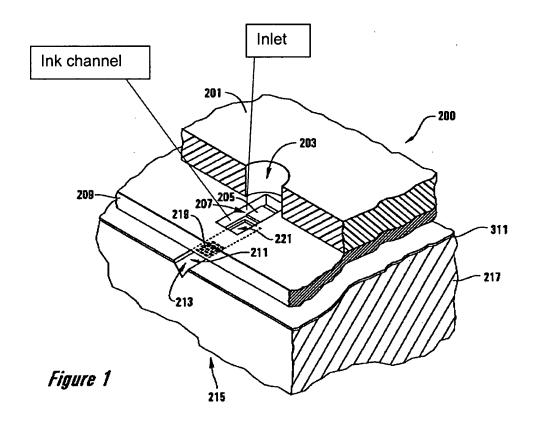
The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 3-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Chee et al. (6,499,835).

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With respect to claim 1, Chee teaches:

- A silicon substrate (217)[see col. 4:42] having a plurality of heaters (205) and a main ink supply channel (215) that is connected to a cartridge (col. 2:58).
- A first barrier layer (209) has a plurality of firing chambers (207) at positions corresponding to the heaters and a plurality of ink channels that

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are connected to the firing chambers and the main ink supply channel by inlets, as shown above.

- A second barrier layer (311) having a plurality of slots (213) extending
 from the main ink channel to the inlets of the ink channel. As can be seen
 in Fig. 1, the heater is located on the second barrier layer, thus the second
 barrier layer covers the bottom of the ink chamber.
- A nozzle plate (201) covers the first and second barrier layers and has a plurality of nozzles (203).
- The first barrier layer is located between the nozzle plate and the second barrier layer.

With respect to claim 3, this limitation has already been addressed in the discussion of claim 1.

With respect to claim 4, the second barrier layer has a plurality of holes (219) corresponding to the nozzles.

With respect to claim 5, this limitation has already been addressed in the discussion of claim 1.

Allowable Subject Matter

Claims 7, 9 and 10 are allowed.

Claim 8 will be allowable when it is amended to overcome the objections.

The following is a statement of reasons for the indication of allowable subject matter:

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The prior art of record fails to teach a second barrier layer that is provided on the

upper and lower sides of the first barrier layer.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael S. Brooke whose telephone number is 571 272-

2142. The examiner can normally be reached on M-F 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Meier can be reached on 571 272-2149. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Michael S. Brooke Primary Examiner

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MSB 12/19/04